
FCC Test Report

Report No.: AGC06657160402FE03

FCC ID : PMJT800
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : Audio Transmitter
BRAND NAME : Amphony
MODEL NAME : T800
CLIENT : Amphony Corp.
DATE OF ISSUE : July.07, 2016
STANDARD(S) : FCC Part 15 Rules
TEST PROCEDURE(S) :
REPORT VERSION : V1.0



Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	July.07, 2016	Valid	Original Report

TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY.....	4
2. GENERAL INFORMATION	5
2.1. PRODUCT DESCRIPTION	5
2.2. TABLE OF CARRIER FREQUENCY.....	5
3. MEASUREMENT UNCERTAINTY	6
4. DESCRIPTION OF TEST MODES	6
5. SYSTEM TEST CONFIGURATION.....	7
5.1. CONFIGURATION OF EUT SYSTEM.....	7
5.2. EQUIPMENT USED IN EUT SYSTEM.....	7
5.3. SUMMARY OF TEST RESULTS.....	7
6. TEST FACILITY.....	8
7. RADIATED EMISSION.....	9
7.1 TEST LIMIT	9
7.2. MEASUREMENT PROCEDURE	10
7.3. TEST SETUP	12
7.4. TEST RESULT	13
8. BAND EDGE EMISSION.....	18
8.1. MEASUREMENT PROCEDURE	18
8.2 TEST SETUP	18
8.3 RADIATED TEST RESULT	18
9. 20DB BANDWIDTH.....	23
9.1. MEASUREMENT PROCEDURE	23
9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	23
9.3. MEASUREMENT RESULTS	23
10. FCC LINE CONDUCTED EMISSION TEST	26
10.1. LIMITS OF LINE CONDUCTED EMISSION TEST	26
10.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST	26
10.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST	27
10.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST	27
10.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST	28
APPENDIX A: PHOTOGRAPHS OF TEST SETUP.....	30
APPENDIX B: PHOTOGRAPHS OF EUT.....	32

1. VERIFICATION OF CONFORMITY

Applicant	Amphony Corp.
Address	5117 S. 165th Road, Bolivar, MO 65613-8554, USA
Manufacturer	Suzhou Feiye Electronics, Co. Ltd.
Address	No. 18 Xinzong Rd., Suzhou, 215128, China
Product Designation	Audio Transmitter
Brand Name	Amphony
Test Model	T800
Date of test	Jun.07, 2016 to Jun.08, 2016
Deviation	None
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BR/RF

We hereby certify that:

The above equipment was tested by Dongguan Precise Testing Service Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.249.

Tested by

Max Zhang(Zhang Yi)

July.07, 2016

Reviewed by

Rock Huang(Huang Dinglue)

July.07, 2016

Approved by

Solger Zhang(Zhang Hongyi)

Authorized Officer

July.07, 2016

2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	2.410 GHz to 2.478GHz
Maximum field strength	89.26dBuV/m@3m(AV)
Modulation	GFSK
Number of channels	18
Antenna Gain	2dBi
Antenna Designation	Wire Antenna (Met 15.203 Antenna requirement)
Hardware Version	T800 REV 1
Software Version	1.4.2.38775
Power Supply	DC 7.5V by adapter

2.2. TABLE OF CARRIER FREQUENCY

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2410	7	2434	13	2458
2	2414	8	2438	14	2462
3	2418	9	2442	15	2466
4	2422	10	2446	16	2470
5	2426	11	2450	17	2474
6	2430	12	2454	18	2478

3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 % .

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 3.18\text{dB}$
2	All emissions, radiated	$\pm 3.91\text{dB}$
3	Temperature	$\pm 0.5^\circ\text{C}$
4	Humidity	$\pm 2\%$

4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX in GFSK modulation
2	Middle channel TX in GFSK modulation
3	High channel TX in GFSK modulation
4	Linked mode

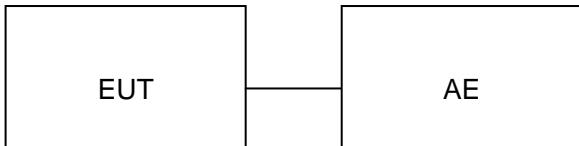
Note:

1. Only the result of the worst case was recorded in the report, if no other cases.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure :



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Audio Transmitter	T800	FCC ID:PMJT800	EUT
2	Adapter	MKS-0751000US	120V AC -> 7.5 V DC, 1000 mA	Marketed

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249	Radiated Emission	Compliant
§15.249	Band Edges	Compliant
§15.215	20dB bandwidth	Compliant
§15.207	Conducted Emission	Compliant

6. TEST FACILITY

Site	Dongguan Precise Testing Service Co., Ltd.
Location	Building D, Baoding Technology Park, Guangming Road 2, Dongcheng District, Dongguan, Guangdong, China.
FCC Registration No.	371540
Description	The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.10:2013.

ALL TEST EQUIPMENT LIST

Radiated Emission Test Site					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI Test Receiver	Rohde & Schwarz	ESCI	101417	July 4, 2015	July 3, 2016
Trilog Broadband Antenna (25M-1GHz)	SCHWARZBECK	VULB9160	9160-3355	July 4, 2015	July 3, 2016
Signal Amplifier	SCHWARZBECK	BBV 9475	9745-0013	July 4, 2015	July 3, 2016
RF Cable	SCHWARZBECK	AK9515E	96221	July 4, 2015	July 3, 2016
3m Anechoic Chamber	CHENGYU	966	PTS-001	June 3, 2016	June 2, 2017
MULTI-DEVICE Positioning Controller	Max-Full	MF-7802	MF780208339	N/A	N/A
Active loop antenna (9K-30MHz)	Schwarzbeck	FMZB1519	1519-038	June 3, 2016	June 2, 2017
Spectrum analyzer	Agilent	E4407B	MY46185649	June 3, 2016	June 2, 2017
Horn Antenna (1G-18GHz)	SCHWARZBECK	BBHA9120D	9120D-1246	June 3, 2016	June 2, 2017
Horn Ant (18G-40GHz)	Schwarzbeck	BBHA 9170	9170-181	June 3, 2016	June 2, 2017

Conducted Emission Test Site					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI Test Receiver	Rohde & Schwarz	ESCI	101417	July 4, 2015	July 3, 2016
Artificial Mains Network	Narda	L2-16B	000WX31025	July 8, 2015	July 7, 2016
Artificial Mains Network (AUX)	Narda	L2-16B	000WX31026	July 8, 2015	July 7, 2016
RF Cable	SCHWARZBECK	AK9515E	96222	July 4, 2015	July 3, 2016
Shielded Room	CHENGYU	843	PTS-002	June 3, 2016	June 2, 2017

7. RADIATED EMISSION

7.1 TEST LIMIT

Standard FCC15.249

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meter)
900-928MHz	50	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

Standard FCC 15.209

Frequency (MHz)	Distance Meters	Field Strengths Limit	
		μ V/m	dB(μ V)/m
0.009 ~ 0.490	300	2400/F(kHz)	---
0.490 ~ 1.705	30	24000/F(kHz)	---
1.705 ~ 30	30	30	---
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	Other: 74.0 dB(μ V)/m (Peak) 54.0 dB(μ V)/m (Average)	
Remark: (1) Emission level dB μ V = 20 log Emission level μ V/m (2) The smaller limit shall apply at the cross point between two frequency bands. (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.			

7.2. MEASUREMENT PROCEDURE

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

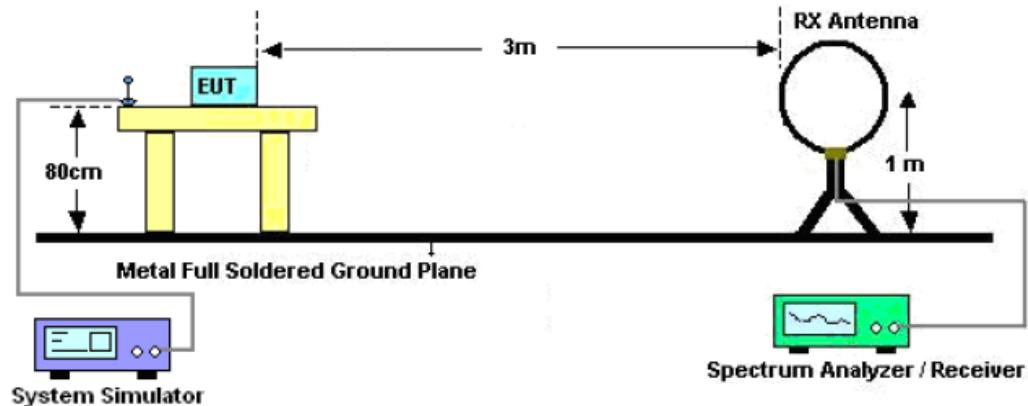
The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/1MHz for Peak, 1MHz/10Hz for Average

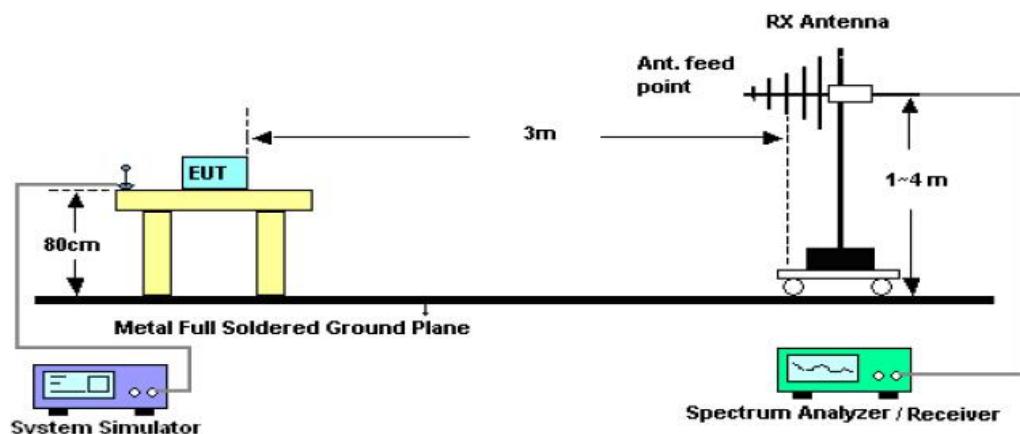
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

7.3. TEST SETUP

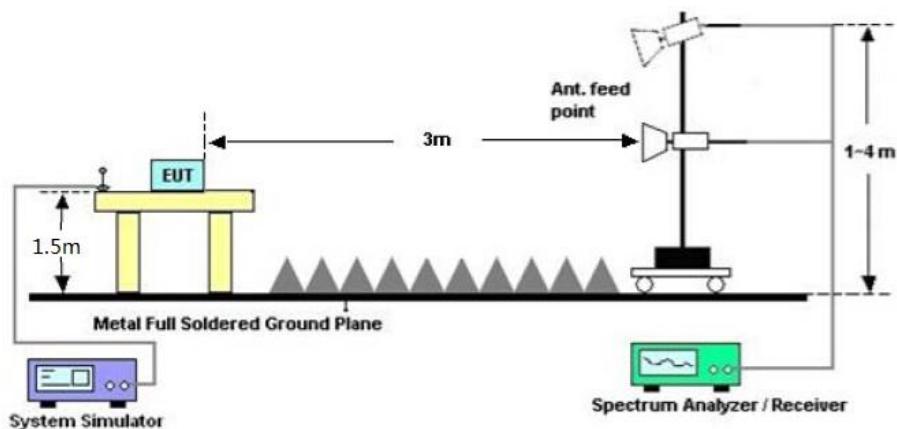
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



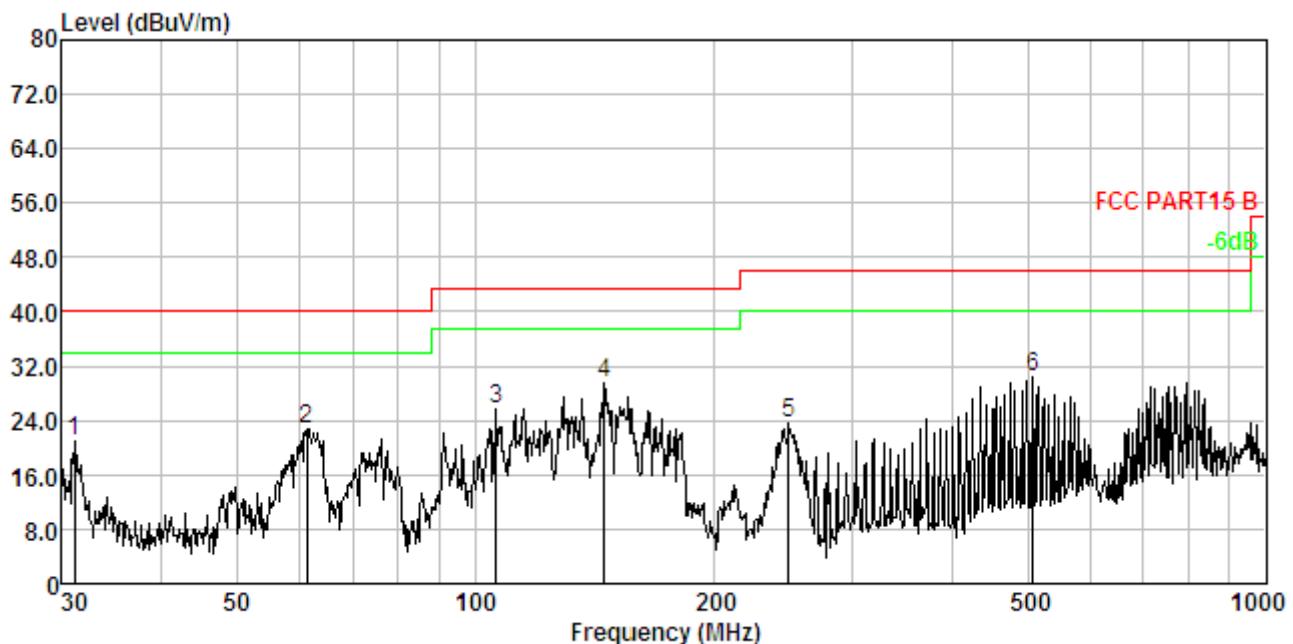
7.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

RADIATED EMISSION 30MHz- 1GHZ

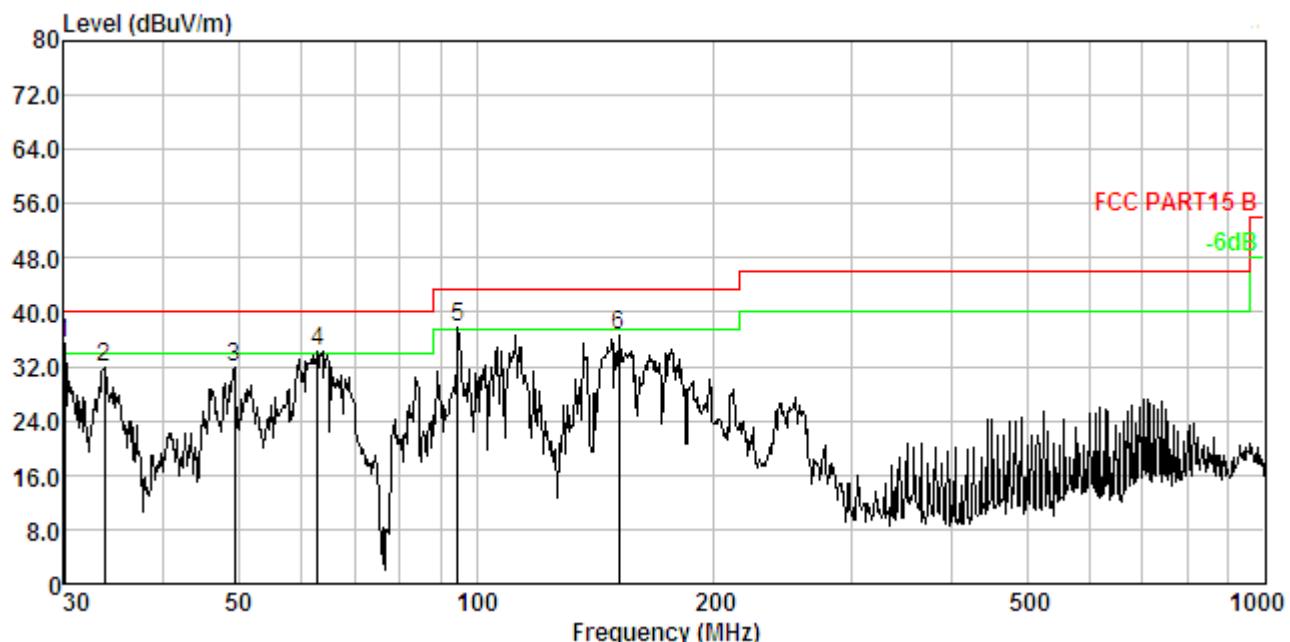
EUT :	Audio Transmitter	Model Name. :	T800
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC7.5V
Test Mode :	Mode 1	Polarization :	Horizontal



No.	Freq MHz	Cable Loss dB	ANT Factor dB/m	Receiver Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limit dBuV/m	Over Limit dB	Remark
1.	31.071	1.09	13.23	36.47	29.98	20.81	40.00	-19.19	Peak
2.	61.346	1.70	12.08	39.12	30.22	22.68	40.00	-17.32	Peak
3.	106.385	2.20	10.78	43.15	30.41	25.72	43.50	-17.78	Peak
4.	145.861	2.49	13.68	43.86	30.52	29.51	43.50	-13.99	Peak
5.	248.552	2.97	11.89	39.42	30.71	23.57	46.00	-22.43	Peak
6.	506.479	3.61	17.15	40.45	30.95	30.26	46.00	-15.74	Peak

RESULT: PASS

EUT :	Audio Transmitter	Model Name. :	T800
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC7.5V
Test Mode :	Mode 1	Polarization :	Vertical



No.	Freq MHz	Cable Loss dB	ANT Factor dB/m	Receiver Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Over Limit dBuV/m	Over Limit dB	Remark
1.	30.000	1.06	13.24	51.09	29.97	35.42	40.00	-4.58	Peak
2.	33.799	1.16	13.32	47.44	30.01	31.91	40.00	-8.09	Peak
3.	49.359	1.51	12.39	48.09	30.14	31.85	40.00	-8.15	Peak
4.	62.871	1.72	11.98	50.70	30.23	34.17	40.00	-5.83	Peak
5.	94.760	2.10	9.72	56.33	30.37	37.78	43.50	-5.72	Peak
6.	151.597	2.52	13.90	50.84	30.53	36.73	43.50	-6.77	Peak

RESULT: PASS

Note:

Factor=Antenna Factor + Cable loss, Margin=Result-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

The mode 1 is the worst case, and only the data of the worst case recorded in this test report.

RADIATED EMISSION ABOVE 1GHZ

EUT :	Audio Transmitter	Model Name. :	T800
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC7.5V
Test Mode :	Mode 1	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2410.013	103.15	-9.37	93.78	114	-20.22	peak
2410.013	96.21	-9.37	86.84	94	-7.16	AVG
4820.026	52.83	3.74	56.57	74	-17.43	peak
4820.026	45.74	3.74	49.48	54	-4.52	AVG
7230.039	47.84	8.14	55.98	74	-18.02	peak
7230.039	39.18	8.14	47.32	54	-6.68	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	Audio Transmitter	Model Name. :	T800
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC7.5V
Test Mode :	Mode 1	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2410.013	105.18	-9.37	95.81	114	-18.19	peak
2410.013	98.52	-9.37	89.15	94	-4.85	AVG
4820.026	53.12	3.74	56.86	74	-17.14	peak
4820.026	46.08	3.74	49.82	54	-4.18	AVG
7230.039	48.22	8.14	56.36	74	-17.64	peak
7230.039	39.47	8.14	47.61	54	-6.39	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	Audio Transmitter	Model Name. :	T800
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC7.5V
Test Mode :	Mode 2	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
						peak
2438.016	102.84	-9.63	93.21	114	-20.79	peak
2438.016	95.77	-9.63	86.14	94	-7.86	AVG
4876.032	52.14	3.76	55.9	74	-18.1	peak
4876.032	45.08	3.76	48.84	54	-5.16	AVG
7314.048	47.11	8.17	55.28	74	-18.72	peak
7314.048	38.53	8.17	46.7	54	-7.3	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	Audio Transmitter	Model Name. :	T800
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC7.5V
Test Mode :	Mode 2	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
						peak
2438.016	104.95	-9.63	95.32	114	-18.68	peak
2438.016	97.75	-9.63	88.12	94	-5.88	AVG
4876.032	53.05	3.76	56.81	74	-17.19	peak
4876.032	46.71	3.76	50.47	54	-3.53	AVG
7314.048	47.86	8.17	56.03	74	-17.97	peak
7314.048	37.84	8.17	46.01	54	-7.99	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	Audio Transmitter	Model Name. :	T800
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC7.5V
Test Mode :	Mode 3	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
2478.021	103.08	-9.61	93.47	114	-20.53	peak
2478.021	96.84	-9.61	87.23	94	-6.77	AVG
4956.042	52.48	3.83	56.31	74	-17.69	peak
4956.042	45.74	3.83	49.57	54	-4.43	AVG
7434.063	48.02	8.21	56.23	74	-17.77	peak
7434.063	39.12	8.21	47.33	54	-6.67	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	Audio Transmitter	Model Name. :	T800
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC7.5V
Test Mode :	Mode 3	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
2478.021	105.18	-9.61	95.57	114	-18.43	peak
2478.021	98.87	-9.61	89.26	94	-4.74	AVG
4956.042	53.14	3.83	56.97	74	-17.03	peak
4956.042	46.22	3.83	50.05	54	-3.95	AVG
7434.063	48.39	8.21	56.6	74	-17.4	peak
7434.063	39.27	8.21	47.48	54	-6.52	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Note: Other emissions from 8G to 25 GHz are considered as ambient noise. No recording in the test report.
Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.
The “Factor” value can be calculated automatically by software of measurement system.

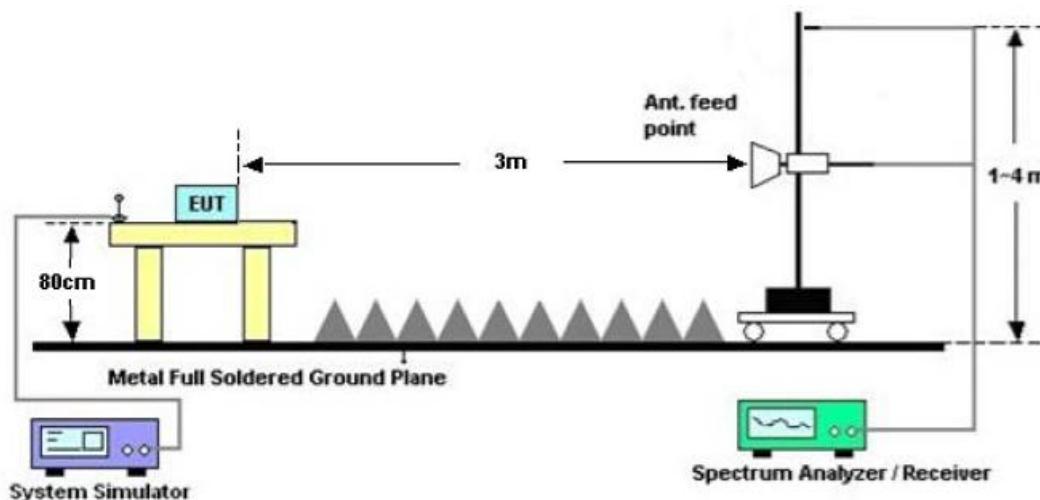
8. BAND EDGE EMISSION

8.1. MEASUREMENT PROCEDURE

1. The EUT operates at transmitting mode. The operate channel is tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
2. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission: (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
(b) AVERAGE: RBW=1MHz ; VBW=1/on time(1KHz) / Sweep=AUTO
3. Other procedures refer to clause 7.2.

8.2 TEST SETUP

RADIATED EMISSION TEST SETUP



8.3 RADIATED TEST RESULT

Note:

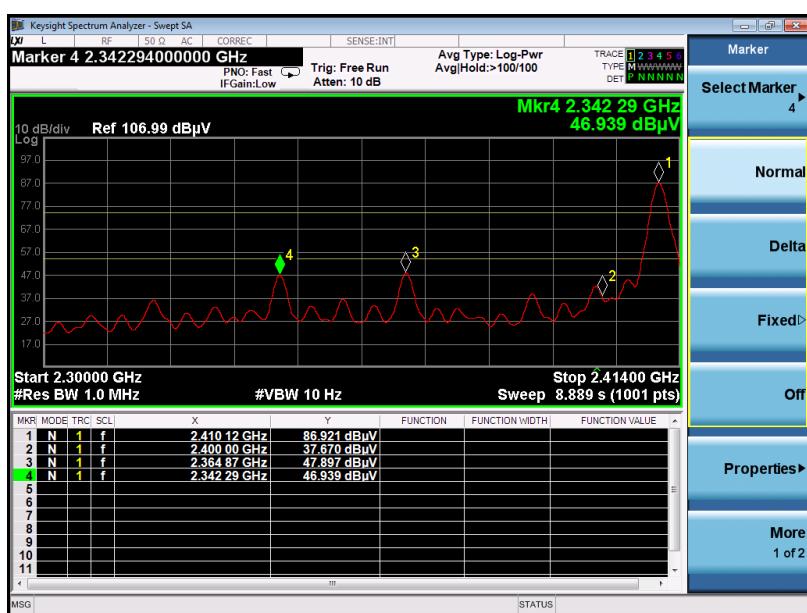
1. Factor=Antenna Factor + Cable loss - Amplifier gain. Field Strength=Factor + Reading level
2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F.

EUT :	Audio Transmitter	Model Name. :	T800
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC7.5V
Test Mode :	Mode 1	Polarization :	Horizontal

PK Value

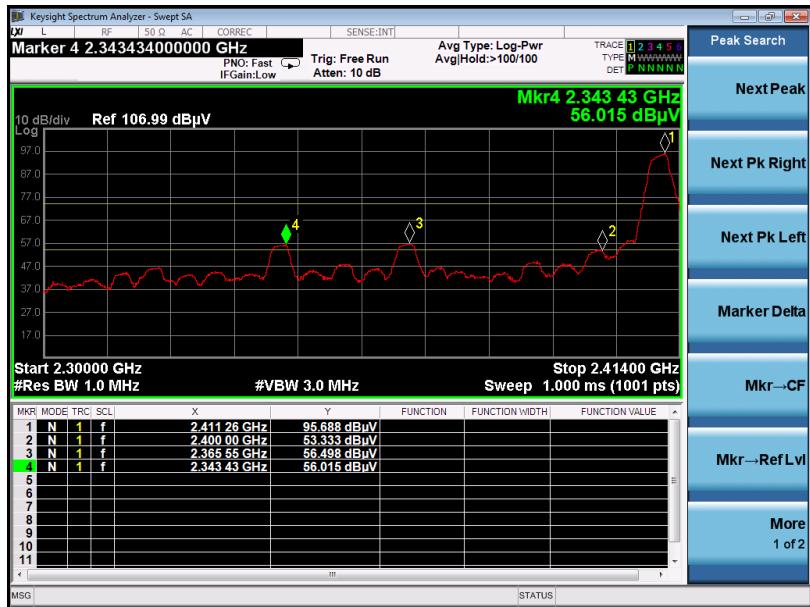


AV Value

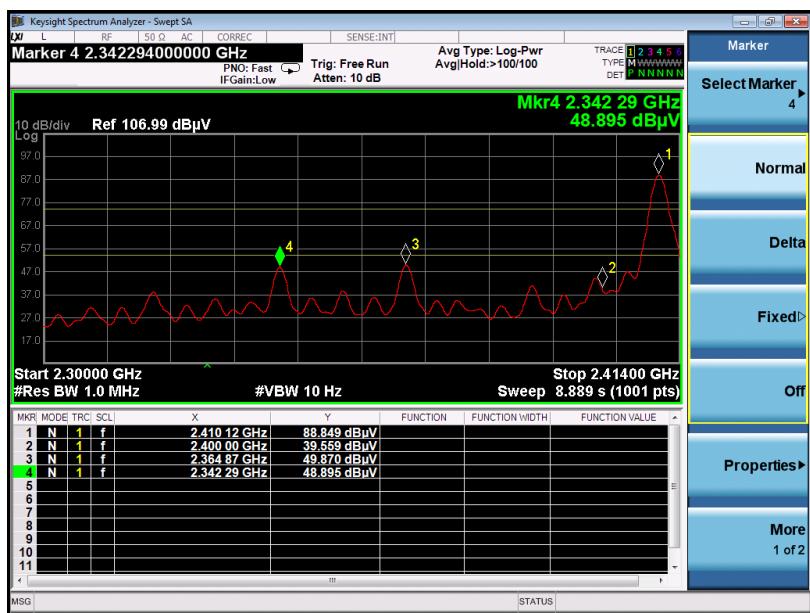


EUT :	Audio Transmitter	Model Name. :	T800
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC7.5V
Test Mode :	Mode 1	Polarization :	Vertical

PK Value

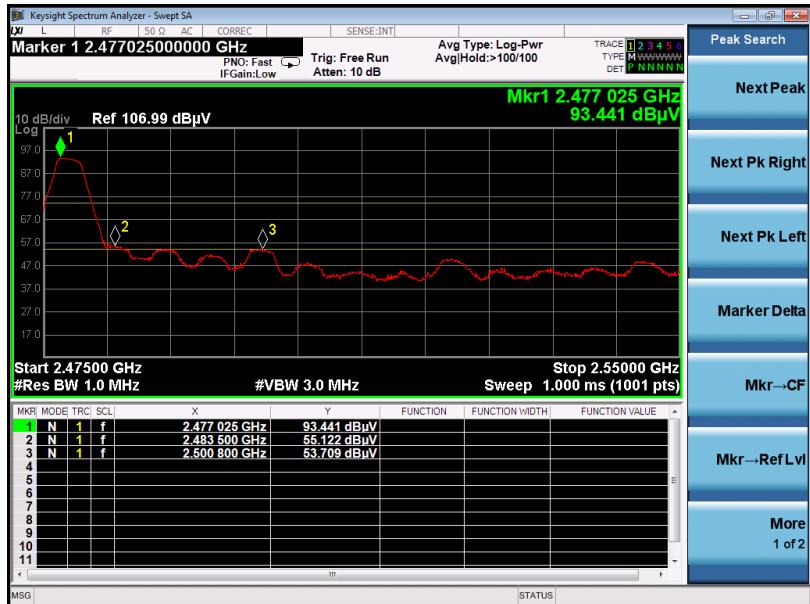


AV Value



EUT :	Audio Transmitter	Model Name. :	T800
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC7.5V
Test Mode :	Mode 3	Polarization :	Horizontal

PK Value



AV Value

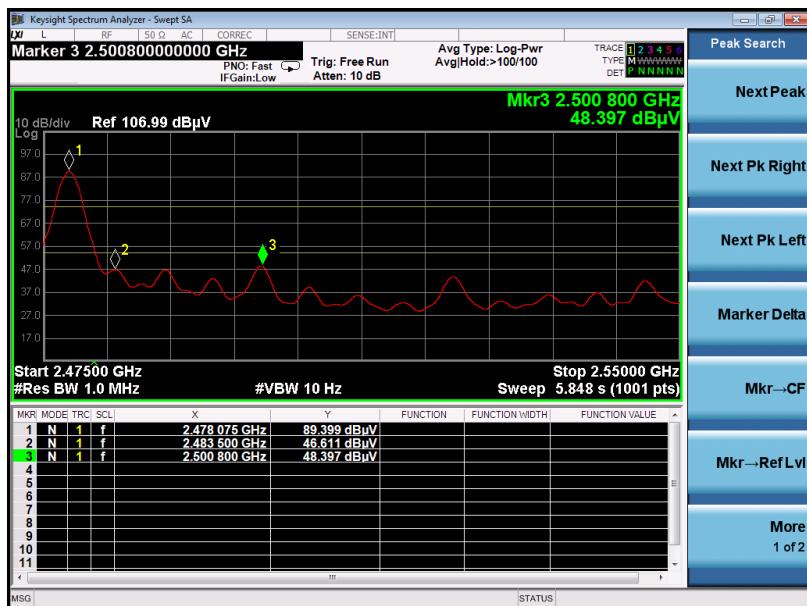


EUT :	Audio Transmitter	Model Name. :	T800
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC7.5V
Test Mode :	Mode 3	Polarization :	Vertical

PK Value



AV Value



Note:

Factor=Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

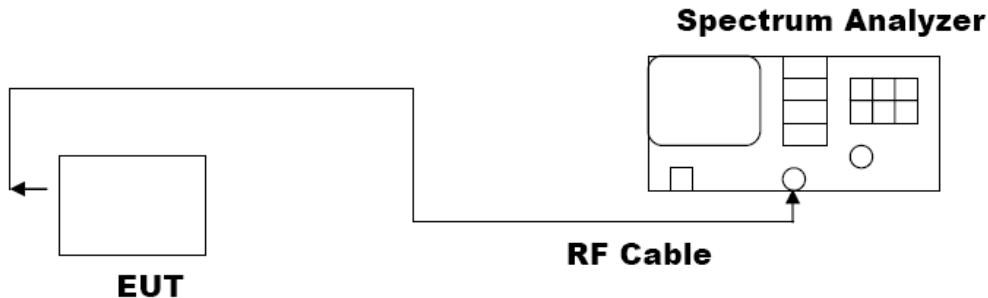
The “Factor” value can be calculated automatically by software of measurement system.

9. 20DB BANDWIDTH

9.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Centre Frequency = Operation Frequency, RBW= 1% of SPAN, VBW \geq 3 \times RBW.
4. Set SPA Trace 1 Max hold, then View.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

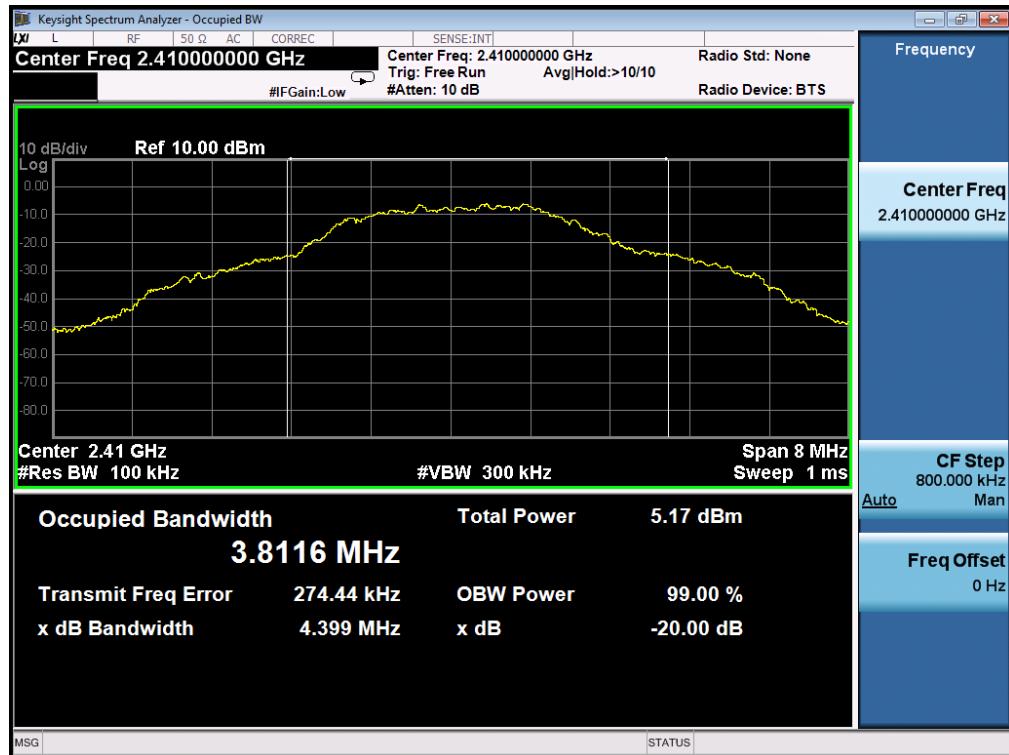


9.3. MEASUREMENT RESULTS

TEST ITEM	20DB BANDWIDTH
TEST MODE	Mode1;Mode2;Mode3

Test Data (MHz)	Criteria
Low Channel	PASS
Middle Channel	PASS
High Channel	PASS

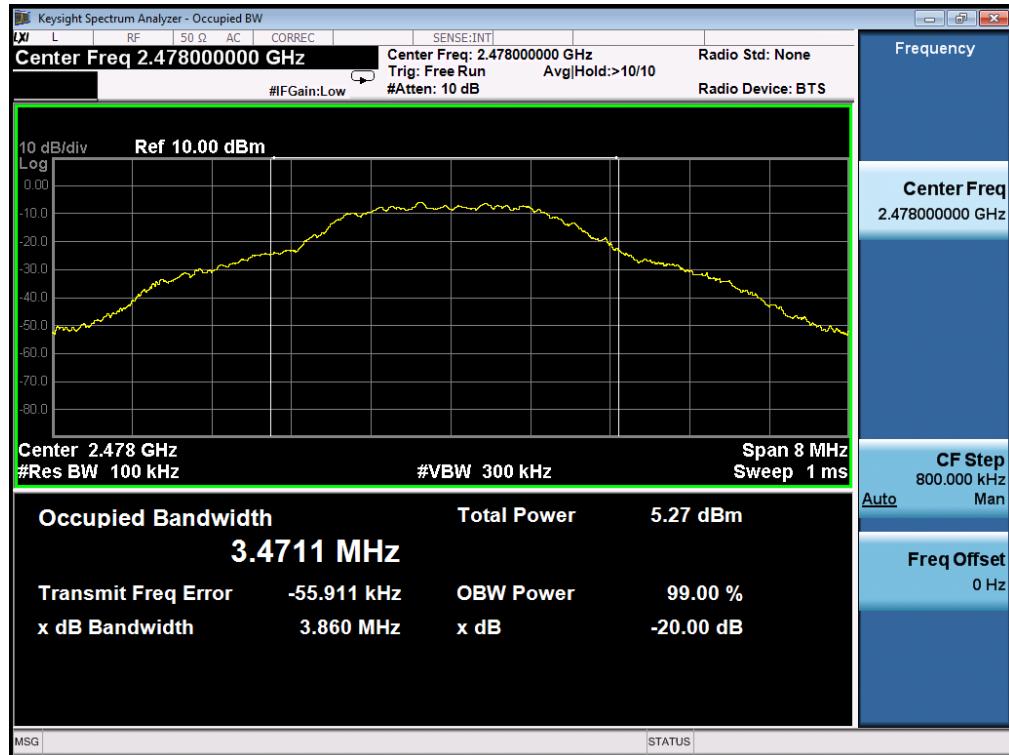
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



10. FCC LINE CONDUCTED EMISSION TEST

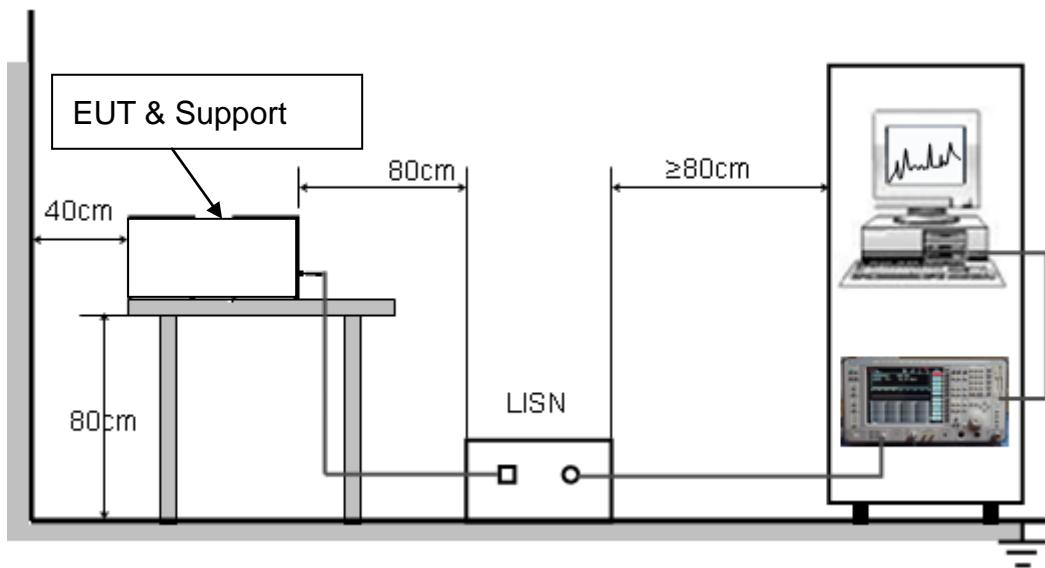
10.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P. (dBuV)	Average (dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

10.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



10.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipments received AC120V/60Hz power from a LISN, if any.
5. The EUT received 120V/60Hz power by a LISN..
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

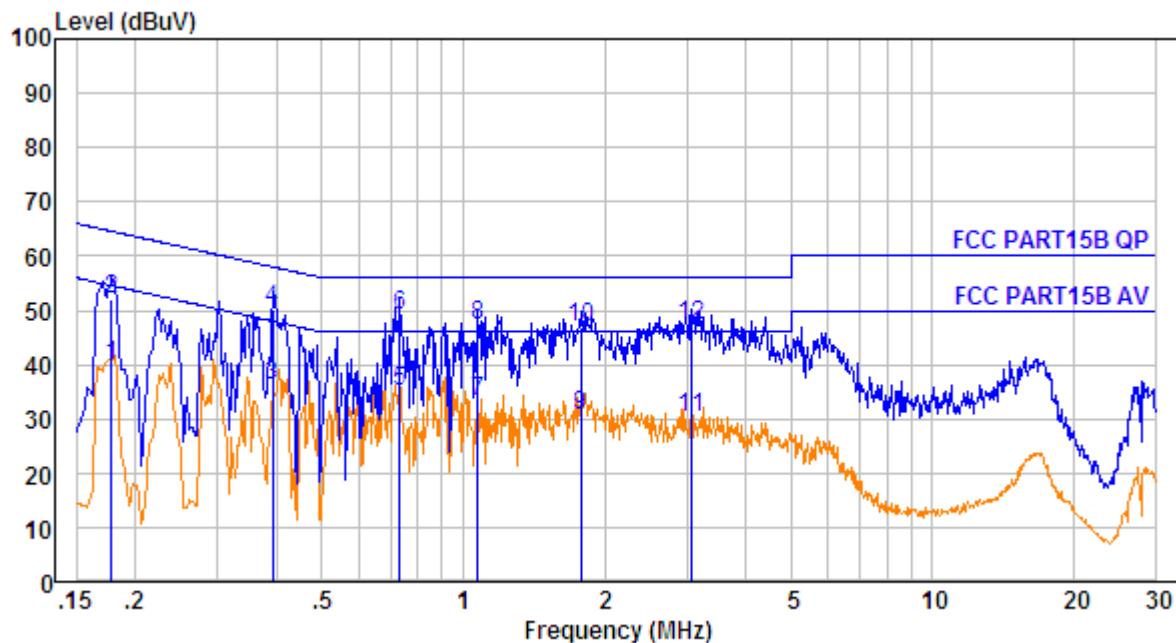
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

10.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.

10.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

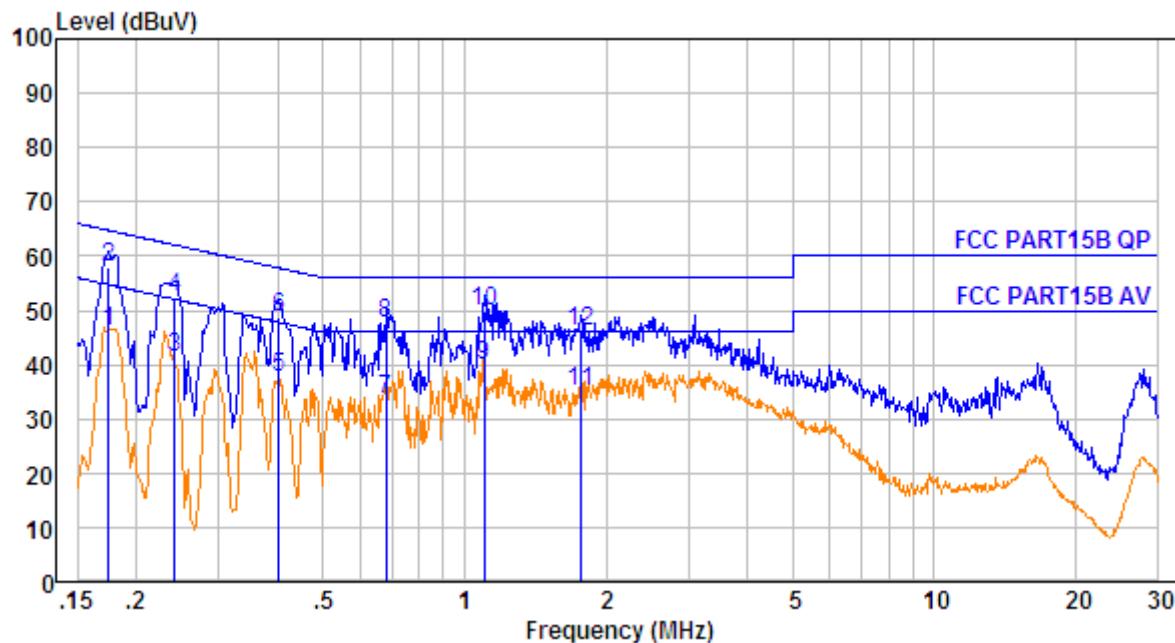
Line Conducted Emission Test Line 1-L



No.	Freq MHz	Cable Loss dB	AMN Factor dB	Receiver Reading dBuV	Emission Level dBuV	Over Limit dBuV	Over Limit dB	Remark
1.	0.178	10.61	0.60	28.75	39.96	54.59	-14.63	Average
2.	0.178	10.61	0.60	40.75	51.96	64.59	-12.63	QP
3.	0.393	10.64	0.60	25.10	36.34	47.99	-11.65	Average
4.	0.393	10.64	0.60	39.10	50.34	57.99	-7.65	QP
5.	0.731	10.66	0.60	23.77	35.03	46.00	-10.97	Average
6.	0.731	10.66	0.60	37.77	49.03	56.00	-6.97	QP
7.	1.077	10.68	0.60	21.86	33.14	46.00	-12.86	Average
8.	1.077	10.68	0.60	35.86	47.14	56.00	-8.86	QP
9.	1.781	10.69	0.60	19.46	30.75	46.00	-15.25	Average
10.	1.781	10.69	0.60	35.46	46.75	56.00	-9.25	QP
11.	3.058	10.71	0.60	18.82	30.13	46.00	-15.87	Average
12.	3.058	10.71	0.60	35.82	47.13	56.00	-8.87	QP

RESULT: PASS

Line Conducted Emission Test Line 2-N



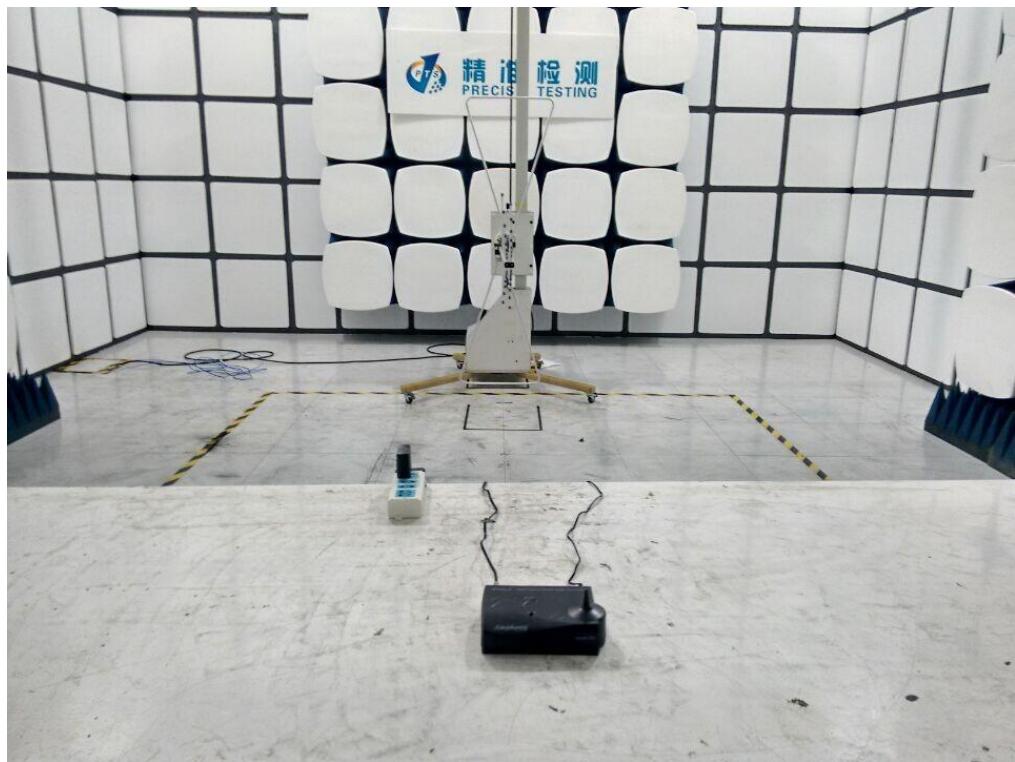
No.	Freq MHz	Cable Loss dB	AMN Factor dB	Receiver Reading dBuV	Emission Level dBuV	Over Limit dB	Remark
1.	0.175	10.60	0.60	34.75	45.95	54.72	-8.77
2.	0.175	10.60	0.60	46.75	57.95	64.72	-6.77
3.	0.242	10.62	0.60	30.24	41.46	52.04	-10.58
4.	0.242	10.62	0.60	41.24	52.46	62.04	-9.58
5.	0.402	10.64	0.60	26.42	37.66	47.81	-10.15
6.	0.402	10.64	0.60	37.42	48.66	57.81	-9.15
7.	0.679	10.66	0.60	22.46	33.72	46.00	-12.28
8.	0.679	10.66	0.60	36.46	47.72	56.00	-8.28
9.	1.100	10.68	0.60	28.44	39.72	46.00	-6.28
10.	1.100	10.68	0.60	38.44	49.72	56.00	-6.28
11.	1.772	10.69	0.60	23.79	35.08	46.00	-10.92
12.	1.772	10.69	0.60	34.79	46.08	56.00	-9.92

RESULT: PASS

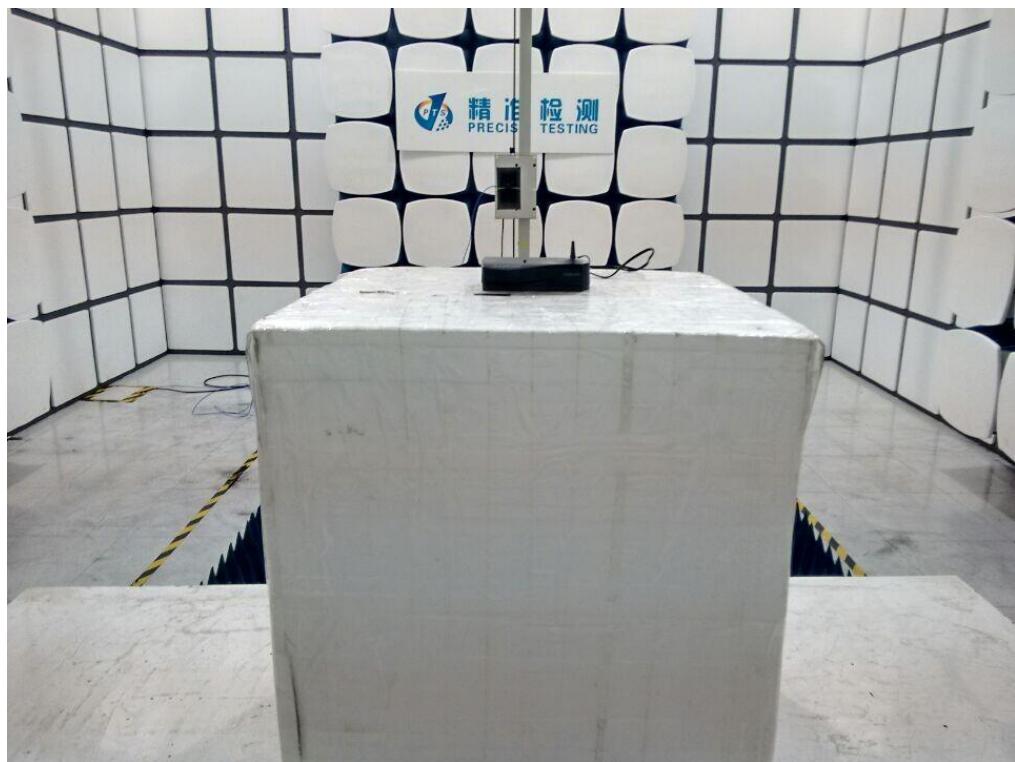
Note: The mode 1 is the worst case, and only the data of the worst case recorded in this test report.

APPENDIX A: PHOTOGRAPHS OF TEST SETUP

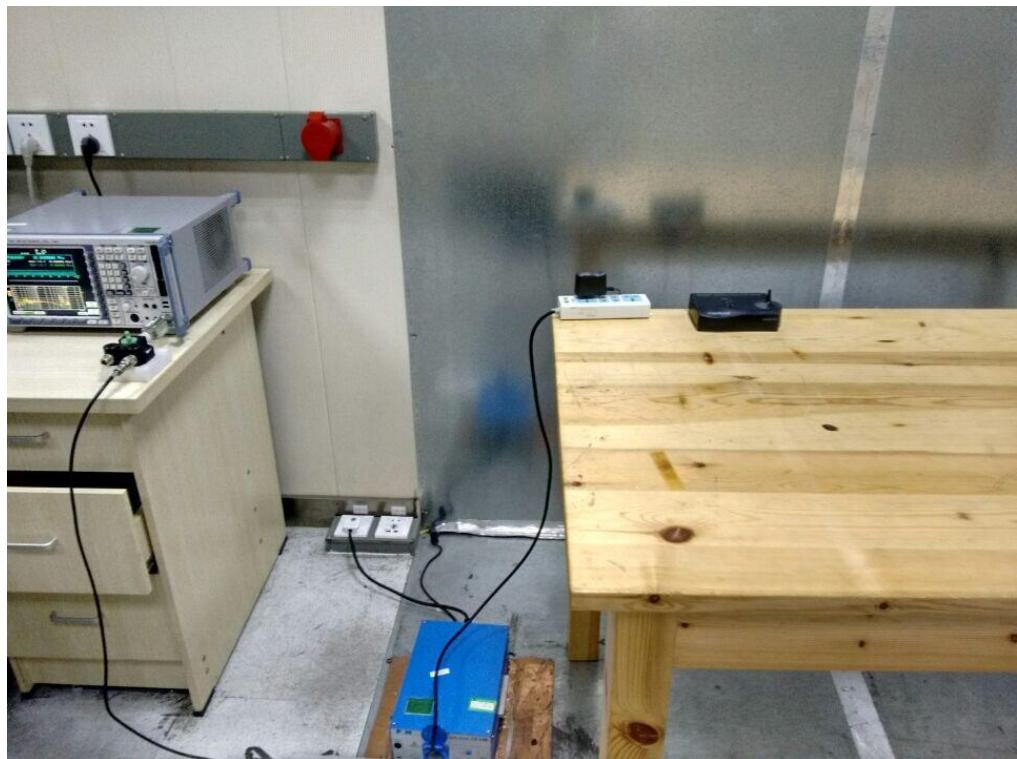
RADIATED EMISSION TEST SETUP BELOW 1GHz



RADIATED EMISSION TEST SETUP ABOVE 1GHz



CONDUCTED EMISSION TEST SETUP



APPENDIX B: PHOTOGRAPHS OF EUT

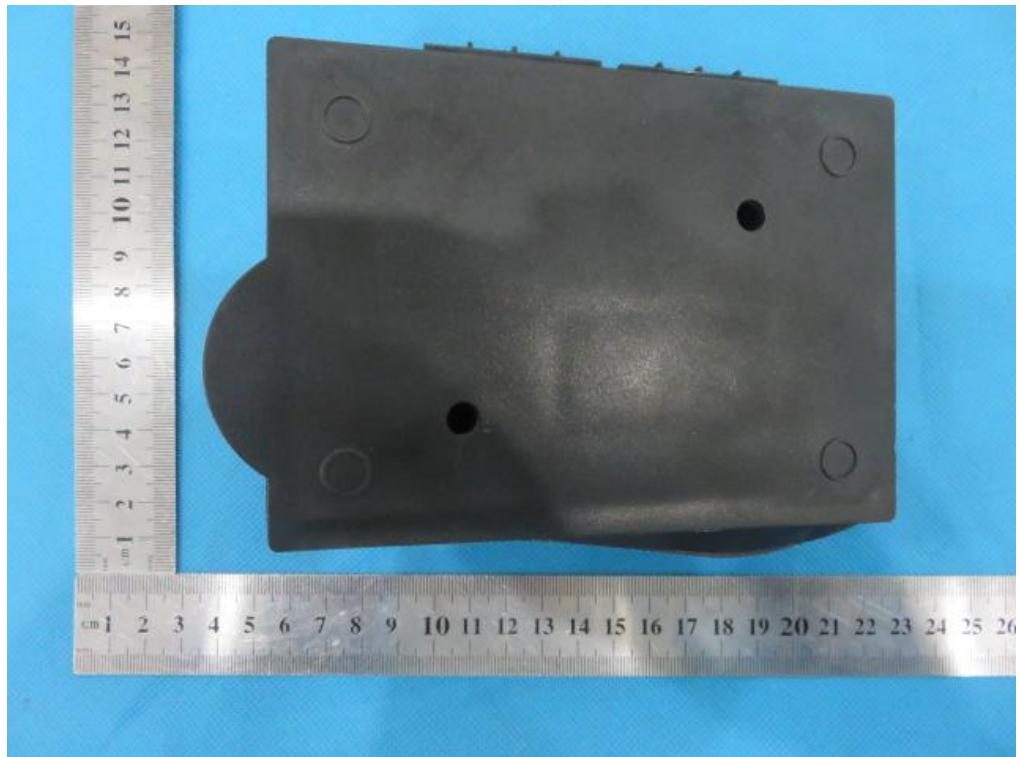
TOTAL VIEW OF EUT



TOP VIEW OF EUT



BOTTOM VIEW OF EUT



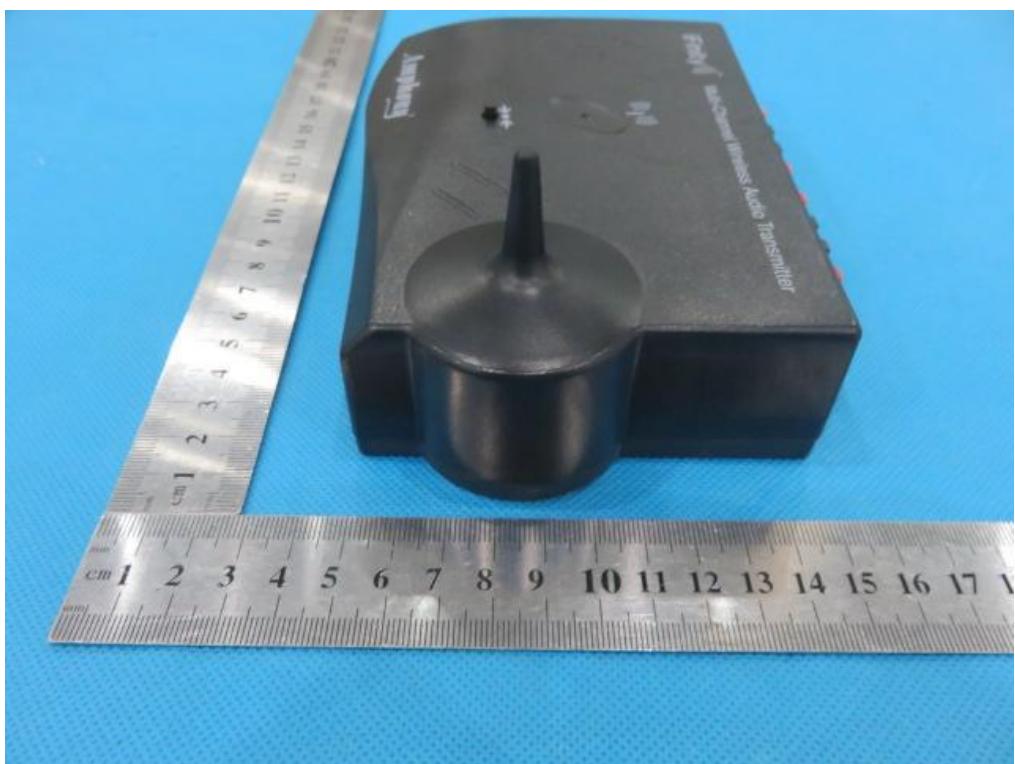
FRONT VIEW OF EUT



BACK VIEW OF EUT



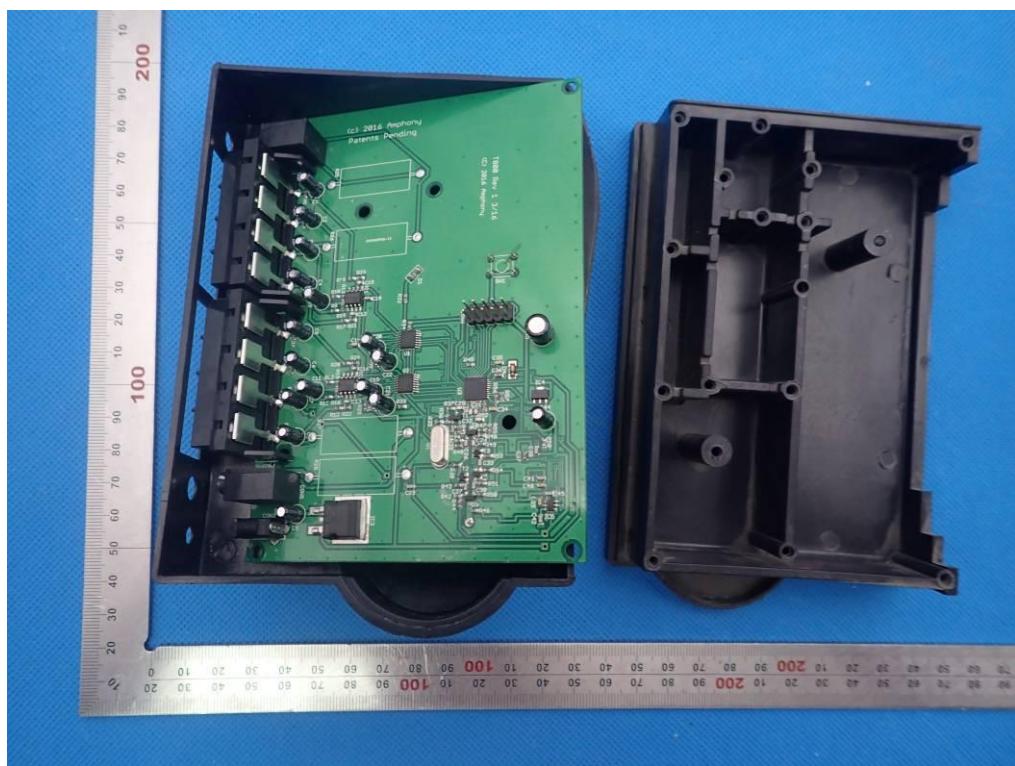
LEFT VIEW OF EUT



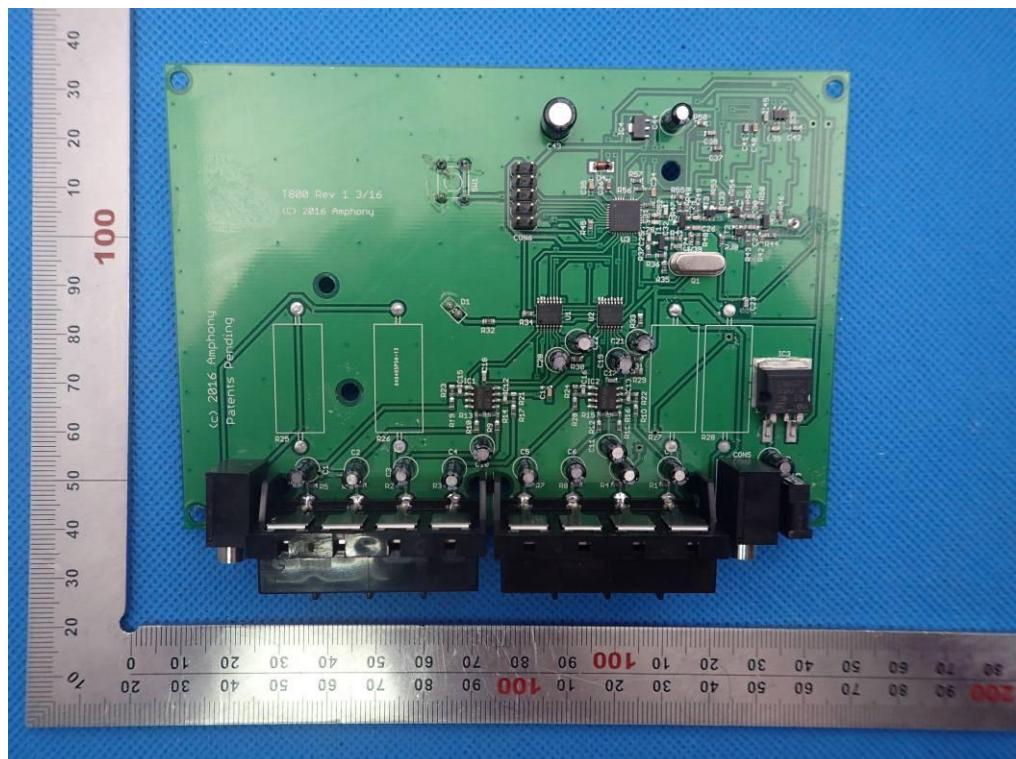
RIGHT VIEW OF EUT



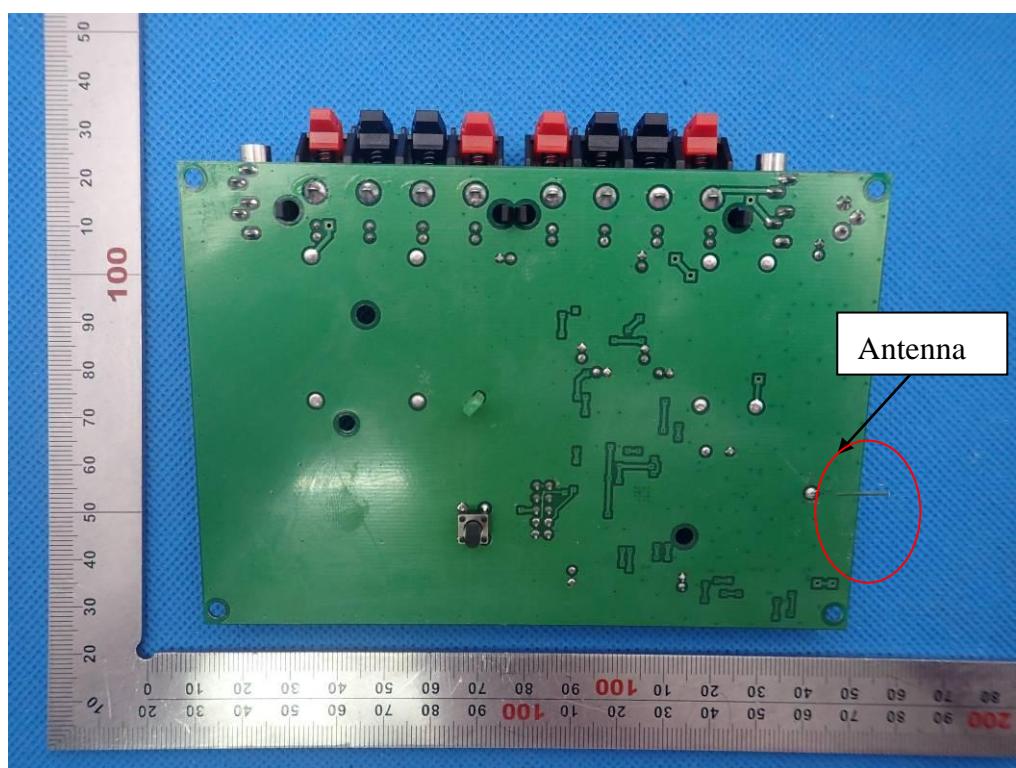
OPEN VIEW OF EUT



INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



----END OF REPORT----